

本試題是否可以使用計算機：☐可使用，☒不可使用（請命題老師勾選）

考試日期：0301，節次：3

1. Compare the mechanisms by which a rise in cytosolic calcium concentration initiates contractile activity in skeletal- and smooth-muscle fibers. (15%)
2. List the sequence of events that occur between the entry of a sound wave into the external auditory canal and the firing of action potentials in the cochlear nerve. (20%)
3. Draw a flow diagram illustrating the reflex compensation for hemorrhage. (15%)
4. List the three inputs controlling rennin secretion and the sequence of events leading from increased rennin secretion to increased aldosterone secretion. (15%)
5. How does renal hydrogen-ion secretion contribute new bicarbonate to the blood? What determines whether a secreted hydrogen ion will achieve these events or will instead cause bicarbonate reabsorption? (15%)
6. Describe how plasma glucose, insulin, glucagon, and epinephrine levels change during exercise and stress. What causes the changes in the concentrations of the hormones? (20%)